Recovery Plan Action Status

Plan Name: Final Recovery Plan for the Gulf of Maine Distinct Population Segment (DPS) of Atlantic Salmon
Plan Status: Final
Plan Date: 07-Apr-06
Lead Agency: Joint
Lead Office: Maine Ecological Services Field Office
((207) 866-3344)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Atlantic salmon (Salmo salar)	2	1.1.1A	Conduct IFIM studies on additional DPS rivers to determine flow requirements of juveniles.	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Geological Survey, Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	outyear costs TBD
Atlantic salmon (Salmo salar)	2	1.1.1B	Determine flow requirements of adult Atlantic salmon in DPS rivers	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Geological Survey, Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	costs TBD
Atlantic salmon (Salmo salar)	2	1.1.2A	Continue analyses of historical flow data for DPS rivers to assess changes over time or hydraulic differences between the rivers that may affect salmon recovery efforts.	Not Started			U.S. Geological Survey, Maine Geological Survey	Work type not yet selected	Labor type not yet selected	Y3 and outyear costs TBD
Atlantic salmon (Salmo salar)	2	1.1.2B	Maintain existing USGS stream gages on DPS rivers	Not Started			U.S. Geological Survey, Atlantic Salmon Commission, Maine Geological Survey	Work type not yet selected	Labor type not yet selected	Gages in place, 10K/gage/year
Atlantic salmon (Salmo salar)	1	1.1.2C	Develop and implement an effective flow monitoring program in addition to gage-sites to monitor stream flow and discharge data at points along the river.	Not Started			U.S. Fish and Wildlife Service, U.S. Geological Survey, Maine Land Use Regulation Commission, Maine Department of Environmental Protection, Maine Geological Survey	Research: Genetics	Graduate Student	annual implementation for duration of recovery

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Atlantic salmon (Salmo salar)	1	1.1.2D	Monitor and assess the potential for groundwater withdrawals to impact stream flow and cold water discharges.	Not Started			U.S. Fish and Wildlife Service, U.S. Geological Survey, Maine Land Use Regulation Commission, Industry, Maine Department of Environmental Protection, Maine Geological Survey, Dept. of Agriculture Food and Rural Resources (Maine)	Work type not yet selected	Labor type not yet selected	action initiated, outyear costs for monitoring TBD
Atlantic salmon (Salmo salar)	2	1.1.3A	Implement the Downeast Salmon Rivers Water Use Management Plan (WUMP) for the Pleasant and Narraguagus Rivers and Mopang Stream	Not Started			U.S. Fish and Wildlife Service, U.S. Geological Survey, Natural Resources Conservation Service , Maine Land Use Regulation Commission, Industry, Atlantic Salmon Commission, Maine Department of Environmental Protection, Dept. of Agriculture Food and Rural Resources (Maine)	Work type not yet selected	Labor type not yet selected	Action ongoing, total estimated cost of implementing the WUMP is $5M
Atlantic salmon (Salmo salar)	1	1.1.3B	Determine the effects of current irrigation withdrawals by all growers in the watersheds on flow and Atlantic salmon	Not Started			U.S. Fish and Wildlife Service, U.S. Geological Survey, Maine Land Use Regulation Commission, Industry, Maine Department of Environmental Protection, Maine Geological Survey, Dept. of Agriculture Food and Rural Resources (Maine)	Work type not yet selected	Labor type not yet selected	
Atlantic salmon (Salmo salar)	3	1.1.3C	Assess and monitor other agricultural water use needs and demands within DPS river watersheds	Not Started			Natural Resources Conservation Service , Maine Land Use Regulation Commission, Maine Department of Environmental Protection	Work type not yet selected	Labor type not yet selected	outyear costs TBD

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Atlantic salmon (Salmo salar)	2	1.1.3D	Develop water use management plans for other DPS rivers	Not Started			U.S. Fish and Wildlife Service, Maine Land Use Regulation Commission, Maine State Planning Office, Industry, Maine Department of Environmental Protection, Dept. of Agriculture Food and Rural Resources (Maine)	Work type not yet selected	Labor type not yet selected	initiate action in FY3
Atlantic salmon (Salmo salar)	2	1.1.3E	Continue periodic assessments of irrigation methods and water demands and their potential effects on hydrology and Atlantic salmon habitat	Not Started			Natural Resources Conservation Service , Maine Land Use Regulation Commission, Industry, Maine Department of Environmental Protection, Dept. of Agriculture Food and Rural Resources (Maine)	Work type not yet selected	Labor type not yet selected	outyear costs TBD
Atlantic salmon (Salmo salar)	1	1.1.4A	Ensure that water withdrawal permit requirements protect stream flows required for the recovery and conservation of Atlantic salmon	Not Started			U.S. Fish and Wildlife Service, Maine Land Use Regulation Commission, Industry, Atlantic Salmon Commission, Maine Department of Environmental Protection, Dept. of Agriculture Food and Rural Resources (Maine)	Work type not yet selected	Labor type not yet selected	
Atlantic salmon (Salmo salar)	1	1.1.4B	Issue and enforce all appropriate permits for water withdrawals	Not Started			U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Maine Land Use Regulation Commission, Industry, Maine Department of Environmental Protection, Dept. of Agriculture Food and Rural Resources (Maine)	Work type not yet selected	Labor type not yet selected	annual implementation for duration of recovery, action ongoing

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Atlantic salmon (Salmo salar)	3	1.1.5A	Review current water management for the dams and develop an assessment of the effect of regulation on a watershed's hydrology and thus Atlantic salmon habitat	Not Started				Work type not yet selected	Labor type not yet selected	costs TBD
Atlantic salmon (Salmo salar)	2	1.1.5B	Review current water management for the dams and develop an assessment of the effect of regulation on a watershed's hydrology and thus Atlantic salmon habitat	Not Started				Work type not yet selected	Labor type not yet selected	costs TBD
Atlantic salmon (Salmo salar)	3	1.2.1	Review existing water quality standards for each river within the DPS to determine adequacy to meet the needs of Atlantic salmon	Not Started			U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Department of Environmental Protection	Work type not yet selected	Labor type not yet selected	3k every 3-5 years to review standards
Atlantic salmon (Salmo salar)	1	1.2.2A	Evaluate the impacts of acid rain on juvenile Atlantic salmon in DPS rivers	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Geological Survey, U.S. Environmental Protection Agency, Nongovernmental Organizations , Atlantic Salmon Commission, Maine Department of Environmental Protection, University of Maine	Work type not yet selected	Labor type not yet selected	

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Atlantic salmon (Salmo salar)	1	1.2.2B	Identify available management measures and techniques to mitigate the potential impacts of acid rain on the DPS. Experimentally evaluate stream acidification mitigation techniques in a natural river system within the range of the DPS.	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Geological Survey, Nongovernmental Organizations , Atlantic Salmon Commission, Maine Department of Environmental Protection	Work type not yet selected	Labor type not yet selected	based on results of pilot study evaluate additional funding needs in out years
Atlantic salmon (Salmo salar)	1	1.2.2C	Identify point sources of airborne pollutants contributing to acid precipitation that may be adversely affecting the DPS and reduce to levels that will not adversely affect or jeopardize the recovery of the DPS	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, Maine Department of Environmental Protection	Work type not yet selected	Labor type not yet selected	outyear costs TBD, funding needs may include modeling needs
Atlantic salmon (Salmo salar)	2	1.2.2D	Model the impact on air and water quality issues, especially acid precipitation, on productivity of salmon in DPS river	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, Atlantic Salmon Commission, Maine Department of Environmental Protection, University of Maine	Work type not yet selected	Labor type not yet selected	
Atlantic salmon (Salmo salar)	2	1.2.2E	Evaluate current agricultural practices such as soil acidity management practices to determine whether they may affect pH levels in DPS rivers	Not Started			U.S. Fish and Wildlife Service, Natural Resources Conservation Service , Industry, Maine Wild Blueberry Commission, Maine Department of Conservation	Work type not yet selected	Labor type not yet selected	costs TBD

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Atlantic salmon (Salmo salar)	1	1.2.2F	Evaluate the biological effects of low pH and aluminum and its toxicity on Atlantic salmon	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Geological Survey, U.S. Environmental Protection Agency, Maine Department of Environmental Protection, University of Maine	Work type not yet selected	Labor type not yet selected	
Atlantic salmon (Salmo salar)	1	1.2.2G	Sample resident fish from all DPS rivers and analyze them for tissue residues and bio-chemical factors indicative of exposure disrupting chemicals	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, Atlantic Salmon Commission, Maine Department of Environmental Protection	Work type not yet selected	Labor type not yet selected	
Atlantic salmon (Salmo salar)	2	1.2.2H	Evaluate the chronic and acute effects of agricultural chemicals on Atlantic salmon and how they may impact salmon recovery efforts	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Department of Environmental Protection, Board of Pesticides Control (Maine)	Work type not yet selected	Labor type not yet selected	
Atlantic salmon (Salmo salar)	2	1.2.2I	Identify and consider appropriate management measures and techniques to mitigate the potential impacts of agricultural chemicals and other contaminants on the DPS	Not Started			U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, Industry, Maine Department of Environmental Protection, Board of Pesticides Control (Maine), Maine Department of Conservation, Maine Department of Agriculture	Management: General	Internal Field Assistance, Internal Technical Assistance	Costs TBD as appropriate. Action contingent on results of 1.2.2H and 1.2.2I Impacts from specific chemical pesticides and fertilizers to be mitigated have not been identified. Residential sources and DOT roadside spraying of chemical contaminants should be considered.

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Atlantic salmon (Salmo salar)	1	1.2.2J	Evaluate the link between pesticides and endocrine disruption	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Geological Survey, U.S. Environmental Protection Agency, Maine Department of Environmental Protection, Board of Pesticides Control (Maine), University of Maine	Work type not yet selected	Labor type not yet selected	
Atlantic salmon (Salmo salar)	2	1.2.2K	Conduct research on the mechanisms on non-pesticide organochlorines exposure, uptake, and effect in rivers where these contaminants are known to occur including, the Dennys below the Eastern Surplus Superfund site	Not Started			U.S. Fish and Wildlife Service, U.S. Geological Survey, U.S. Environmental Protection Agency, Maine Department of Environmental Protection, University of Maine	Work type not yet selected	Labor type not yet selected	outyear costs TBD as necessary
Atlantic salmon (Salmo salar)	2	1.2.2L	Continue State program to replace Overboard Discharges (OBDs).	Ongoing Current	FY 2000 - FY 2004		Maine Department of Environmental Protection	Other: Regulations	Internal Technical Assistance	currently ongoing, cost estimates provided by State states "several projects on DPS rivers could easily be in the several million dollars" Enforcement is an issue. DEP is the lead, DMR and towns are partners linked to shellfish. Need to know how many are in the DPS and what is cost for replacement. Tim McMillan and Pam Parker are contacts in DEP. Is the program effective? Whether or not OBDs impact salmon needs to be answered.

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Atlantic salmon (Salmo salar)	1	1.2.3A	Implement a comprehensive and integrated long-term water chemistry monitoring program on all DPS rivers	Not Started			U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, Nongovernmental Organizations , Atlantic Salmon Commission, Maine Department of Environmental Protection, University of Maine	Work type not yet selected	Labor type not yet selected	outyear costs TBD
Atlantic salmon (Salmo salar)	2	1.2.3B	Implement a comprehensive and integrated long-term water quality monitoring program on all DPS rivers	Not Started				Work type not yet selected	Labor type not yet selected	Costs TBD
Atlantic salmon (Salmo salar)	3	1.2.3C	Monitor water temperatures in the vicinity of blueberry process water discharge sites on the Machais and Narraguagus Rivers to assess the potential impact on Atlantic salmon	Not Started			U.S. Fish and Wildlife Service, U.S. Geological Survey, Nongovernmental Organizations , Industry, Maine Department of Environmental Protection	Work type not yet selected	Labor type not yet selected	outyear costs TBD
Atlantic salmon (Salmo salar)	2	1.2.4A	Prepare and implement NPS pollution reduction plans for DPS rivers	Ongoing Current	FY 2000 - FY 2004		Soil and Water Conservation Districts, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, Nongovernmental Organizations , Natural Resources Conservation Service , Maine Land Use Regulation Commission, Atlantic Salmon Commission, Maine Department of Environmental Protection, Maine Forest Service	Management: Land Use, Management: Planning	Internal Field Assistance, Internal Technical Assistance	Action initiated, outyears costs TBD There needs to be an inventory of what has occurred to date. Get costs from the plans that have been done. Include preparing, implementing, updating as separate recovery tasks. Linked to 1.4.1C

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Atlantic salmon (Salmo salar)	1	1.2.4B	Evaluate the impacts of sedimentation on habitat quantity and quality including relationship between substrate embeddedness and habitat productivity in DPS rivers	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Geological Survey, Nongovernmental Organizations , Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	Costs TBD
Atlantic salmon (Salmo salar)	2	1.2.4C	Prepare and implement Point Source pollution reduction plans for DPS rivers	Not Started			U.S. Environmental Protection Agency, Maine Department of Environmental Protection	Management: Planning	Internal Technical Assistance	Y3 costs TBD; currently ongoing, cost estimates provided by State states "several projects on DPS rivers could easily be in the several million dollars"
Atlantic salmon (Salmo salar)	3	1.2.4D	Fully implement EPA aquaculture wastewater and effluent discharge regulations	Not Started			U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, Maine Department of Environmental Protection	Work type not yet selected	Labor type not yet selected	Costs TBD
Atlantic salmon (Salmo salar)	2	1.2.4E	Continue monitoring of the remediation efforts at the Eastern Surplus Superfund site in Meddybemps	Not Started			U.S. Environmental Protection Agency, Maine Department of Environmental Protection	Work type not yet selected	Labor type not yet selected	outyear costs TBD
Atlantic salmon (Salmo salar)	2	1.2.4F	Address any ground water problems at the Smith junkyard on the Dennys River and restore the site	Not Started			U.S. Environmental Protection Agency, Maine Department of Environmental Protection	Work type not yet selected	Labor type not yet selected	costs TBD
Atlantic salmon (Salmo salar)	2	1.3.1A	Repair or remove the Coopers Mill Dam to improve fish passage around the dam	Not Started			U.S. Fish and Wildlife Service, Local Governments, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	
Atlantic salmon (Salmo salar)	3	1.3.1B	Evaluate the need to repair the existing fishway at Saco Falls	Not Started			Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	Has been repaired

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Atlantic salmon (Salmo salar)	2	1.3.2	Identify and improve culverts or other road crossings that impeded salmon passage	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Nongovernmental Organizations , Natural Resources Conservation Service , Industry, Atlantic Salmon Commission, Maine Forest Service, Maine Department of Transportation	Work type not yet selected	Labor type not yet selected	Action ongoing
Atlantic salmon (Salmo salar)	3	1.3.3	Identify and manage natural debris jams (including beaver dams) that impede salmon passage	Not Started			U.S. Fish and Wildlife Service, Nongovernmental Organizations , Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	Action ongoing
Atlantic salmon (Salmo salar)	2	1.3.4	Condition permits for activities within the estuaries of DPS rivers so as to minimize potential effects on migration of juveniles and adults	Not Started	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Atlantic Salmon Commission	Management: Other	Internal Technical Assistance	This task is ongoing and should continue.
Atlantic salmon (Salmo salar)	2	1.4.1A	Provide long-term protection for riparian buffers through fee acquisition, conservation easements, conservation and management agreements, and other appropriate tools	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Nongovernmental Organizations , Landowners , Natural Resources Conservation Service , Maine Land Use Regulation Commission, Industry, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife, Maine Forest Service	Acquisition: Exchange, Acquisition: Fee Title, Acquisition: Management Agreement, Acquisition: Withdrawal	Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	This task is ongoing, but many agencies and NGOs (including Project SHARE) are involved. Linked to 1.4.1C.

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Atlantic salmon (Salmo salar)	2	1.4.1B	Promote the adoption and use of BMPs by landowners and compliance with these voluntary standards	Ongoing Current	FY 2000 - FY 2004		Soil and Water Conservation Districts, Nongovernmental Organizations , Landowners , Natural Resources Conservation Service , Maine State Planning Office, Industry, Maine Department of Environmental Protection, Maine Forest Service, University of Maine, Maine Department of Conservation, Maine Department of Agriculture	Management: Land Use, Other: Information and Education	Internal Field Assistance, Internal Technical Assistance, Species Expert	Action ongoing. This action should include sustainable forestry initiatives/green certification. Outreach and education is important with landowners, boatyards, marinas, landowners within the DPS. Need assistance of UM Cooperative Extension, state, and federal agencies to develop and implement BMPs.
Atlantic salmon (Salmo salar)	1	1.4.1C	Identify riparian zone activities (e.g., harvest practices, ATVs, development etc.) and evaluate impacts on Atlantic salmon	Ongoing Current	FY 1995 - FY 1999		Nongovernmental Organizations , Industry, Atlantic Salmon Commission, Maine Forest Service	Research: Habitat Status	Internal Field Assistance, Internal Technical Assistance	$25,000/year All rivers have some level of evaluation from a coarse to a fine scale. Most are a snapshot in time. Monitoring is a missing component. There is general knowledge about what is going on. There is no formal evaluation of the impact to salmon. A literature review may be in order. This task is ongoing yet there is a lack of effort to coordinate. A watershed scale view needs to be taken to assess large-scale land use changes and their impacts to salmon. This is a precursor to 1.2.4A. Identify and evaluate are the key words.

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Atlantic salmon (Salmo salar)	2	1.4.1D	Evaluate current state and local land use regulations to determine adequacy of existing measures protecting riparian habitat and instream improve if appropriate	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Natural Resources Conservation Service , Maine Land Use Regulation Commission, Maine State Planning Office, Atlantic Salmon Commission, Maine Forest Service, Dept. of Agriculture Food and Rural Resources (Maine)	Management, Management: Land Use, Other: Regulations	Internal Technical Assistance	
Atlantic salmon (Salmo salar)	2	1.4.1E	Enhance protection of riparian areas where necessary through expanded enforcement and modifications to the Natural Resource Protection Act, Forest Practices Act, LURC Zoning standards, and/or Municipal Shoreland Zoning	Not Started			Maine Land Use Regulation Commission, Maine State Planning Office, Maine Department of Environmental Protection, Maine Department of Conservation	Management: Other, Other: Regulations	Internal Administrative, Internal Technical Assistance	Costs TBD. Modifications would need to be based on the evalautions under 1.4.1D. Enforcement is lacking as well as education. Task should be about helping people comply with standards and regulations. We need to help the public understand the value and purpose of regulations. We need to fund CEOs. Compliance is underfunded. Concurrent with 1.4.1D and 1.4.1B.
Atlantic salmon (Salmo salar)	2	1.4.2A	Evaluate the potential for activities in estuaries to adversely affect Atlantic salmon	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Atlantic Salmon Commission, University of Maine	Management: Disease Control, Management: Land Use, Management: Predator and Competitor Control, Research: Competition, Research: Disease, Research: Migration, Research: Predation	Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	This action is linked to 1.3.4

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Atlantic salmon (Salmo salar)	2	1.4.2B	Condition permits for activities within the estuaries of DPS rivers so as to minimize potential effects on Atlantic salmon	Not Started	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Maine Land Use Regulation Commission, Atlantic Salmon Commission, Maine Department of Environmental Protection	Management: Land Use, Management: Planning, Other: Regulations	Internal Field Assistance, Internal Technical Assistance, Species Expert	This action is almost redundant with 1.3.4
Atlantic salmon (Salmo salar)	1	1.5.1	Create regional hydraulic geometry curves and a reference reach database	Not Started			U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	Action ongoing, outyear costs TBD. Information is needed to aid in habitat restoration
Atlantic salmon (Salmo salar)	3	1.5.2A	Identify, catalogue and prioritize habitat restoration needs in DPS rivers	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Nongovernmental Organizations , Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	periodic needs assessment throughout recovery
Atlantic salmon (Salmo salar)	3	1.5.2B	Identify, catalogue and prioritize habitat restoration needs in estuarine habitat of DPS rivers	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Nongovernmental Organizations , Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	
Atlantic salmon (Salmo salar)	1	1.5.3	Conduct high priority restoration projects	Not Started			Nongovernmental Organizations , Natural Resources Conservation Service , Atlantic Salmon Commission, Maine Forest Service, Maine Department of Transportation	Work type not yet selected	Labor type not yet selected	outyear costs TBD, based on the outcome of 1.5.2A & 1.5.2B

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Atlantic salmon (Salmo salar)	2	1.5.4	Evaluate the potential of stream flow augmentation as a recovery tool to help meet Atlantic salmon flow needs and increase juvenile production and survival	Not Started			U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Geological Survey	Work type not yet selected	Labor type not yet selected	Based on initial evaluate additional funding needs TBD
Atlantic salmon (Salmo salar)	1	1.5.5	Evaluate the ecological role and importance of restoring other diadromous fish populations	Not Started				Work type not yet selected	Labor type not yet selected	Costs TBD
Atlantic salmon (Salmo salar)	1	2.1.1	Maintain and enforce the closure of the directed sport fishery for Atlantic salmon	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Maine Department of Inland Fish and Wildlife, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	
Atlantic salmon (Salmo salar)	1	2.1.2	Maintain current FMP that restricts directed harvest of Atlantic salmon in U.S. estuarine and marine waters	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), New England Fishery Management Council	Work type not yet selected	Labor type not yet selected	Periodic amendment of FMP as needed. Costs TBD
Atlantic salmon (Salmo salar)	1	2.1.3A	Participate in international salmon management with the goal of ensuring any quotas set are based on the best available scientific data and provide adequate protection of US stocks.	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	outyear costs TBD, based on the outcome of 1.5.2A & 1.5.2B
Atlantic salmon (Salmo salar)	2	2.1.3B	Continue US participation in the international sampling program at West Greenland	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries)	Work type not yet selected	Labor type not yet selected	

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Atlantic salmon (Salmo salar)	2	2.1.3C	Continue efforts to implement a biological sampling program at St. Pierre et Miquelon to determine the origin on Atlantic salmon captured in this fishery	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Department of State, International partners	Work type not yet selected	Labor type not yet selected	Y1 NMFS costs
Atlantic salmon (Salmo salar)	2	2.2.1A	Assess the level of incidental take of Atlantic salmon by recreational anglers	Not Started			U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife	Work type not yet selected	Labor type not yet selected	monitoring costs TBD
Atlantic salmon (Salmo salar)	1	2.2.1B	Prohibit all recreational fishing in select areas utilized by Atlantic salmon as holding areas to all fishing where Atlantic salmon may be taken as bycatch or poached	Not Started			Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Monitoring and Enforcement costs TBD
Atlantic salmon (Salmo salar)	1	2.2.1C	Develop a Section 10(a)(1)(B) habitat conservation plan for recreational fishing permitted by the State that may incidentally take Atlantic salmon	Not Started			U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife	Work type not yet selected	Labor type not yet selected	costs of development/rulemaking cost of implementation TBD
Atlantic salmon (Salmo salar)	2	2.2.1D	Continue to monitor commercial freshwater fisheries where the potential for incidental take of Atlantic salmon exists	Not Started			Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	Costs TBD
Atlantic salmon (Salmo salar)	2	2.2.2A	Assess the potential risk for incidental take of Atlantic salmon in marine and estuarine fisheries	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), Atlantic Salmon Commission, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	Action precursor to action 2.2.2B

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Atlantic salmon (Salmo salar)	2	2.2.2B	Develop appropriate management strategies and regulatory measures to avoid bycatch of Atlantic salmon in estuarine and marine fisheries where significant potential for bycatch has been identified	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), Atlantic Salmon Commission, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	Costs TBD, action contingent on completion of action 2.2.2A
Atlantic salmon (Salmo salar)	2	2.2.2C	Increase observer coverage in the midwater trawl herring fishery to improve the ability to assess the potential for Atlantic salmon bycatch in the herring fishery.	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), Maine Department of Marine Resources, New England Fishery Management Council	Work type not yet selected	Labor type not yet selected	Cost TBD
Atlantic salmon (Salmo salar)	2	3.1.1A	Identify and catalogue locations that restrict passage and/or concentrate salmon and thereby increase the vulnerability of salmon to predation	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	Action should be conducted in association with 3.1.3A & 3.1.3B
Atlantic salmon (Salmo salar)	2	3.1.1B	Review existing salmon population management practices to determine if they increase the vulnerability of juvenile salmon to cormorant predation	Not Started			U.S. Fish and Wildlife Service, Atlantic Salmon Commission, University of Maine	Management: Predator and Competitor Control	Internal Field Assistance, Internal Technical Assistance	suggest deleting or moving to biological interactions work group
Atlantic salmon (Salmo salar)	2	3.1.1C	Document and monitor the presence and abundance of potential salmon predators at natural and man-made concentration sites	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, University of Maine	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Atlantic salmon (Salmo salar)	3	3.1.1D	Assess the potential of land and water use practices to exacerbate predation rates	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, University of Maine	Management: Predator and Competitor Control, Research: Competition, Research: Habitat Status, Research: Management Techniques, Research: Other Information, Research: Predation	Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	outyear costs TBD. There is a question as to whether this action is intended to be broad (all DPS rivers) or river-specific. Is work to be focused on land management or specific management practices?
Atlantic salmon (Salmo salar)	2	3.1.2A	Evaluate the potential of cormorant predation to adversely affect the recovery of the DPS	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Atlantic salmon (Salmo salar)	2	3.1.2B	Identify specific cormorant colonies within the DPS that may inflict significant levels of depredation on DPS salmon populations and implement appropriate experimental management measures	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	20K in Y4
Atlantic salmon (Salmo salar)	1	3.1.2C	Evaluate the potential of conserving and restoring runs of anadromous forage species to provide a buffer against predation on salmon and other ecological benefits	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	outyear costs TBD

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Atlantic salmon (Salmo salar)	2	3.1.3A	Evaluate the effect of seal predation on the recovery of the DPS	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	Action should be conducted in association with 3.1.1A & 3.1.3B
Atlantic salmon (Salmo salar)	2	3.1.3B	Document and monitor the presence and abundance of seals at natural and man-made concentration sites	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, University of Maine	Work type not yet selected	Labor type not yet selected	Action should be conducted in association with 3.1.1A & 3.1.3B
Atlantic salmon (Salmo salar)	2	3.1.3C	Conduct research to determine the role of net pen sites in seal aggregation and salmon predation	Planned			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, University of Maine	Research: Other Information	Graduate Student, Internal Technical Assistance	outyear costs TBD
Atlantic salmon (Salmo salar)	2	3.1.3D	Evaluate the potential of alternative research techniques and food habitat sampling methodologies to help assess seal predation on Atlantic salmon	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), Atlantic Salmon Commission, University of Maine	Work type not yet selected	Labor type not yet selected	outyear costs TBD
Atlantic salmon (Salmo salar)	2	3.1.3E	Develop and implement appropriate management measures to mitigate the impact of documents seal predation on wild salmon populations	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	Cost TBD; Action should be conducted in association with 3.1.1A, 3.1.3A, & 3.1.3B
Atlantic salmon (Salmo salar)	2	3.1.4	Assess potential effects of other predators	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, University of Maine	Work type not yet selected	Labor type not yet selected	Cost TBD

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Atlantic salmon (Salmo salar)	1	3.2.1A	Review existing stocking programs and assess the potential of these introductions on Atlantic salmon populations and ways to minimize potential adverse affects	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife	Management: Planning, Management: Propagation, Research: Propagation, Research: Reintroduction	Contract	review annually for duration of recovery period. Need to develop RFP for hatchery review, award contract, review results, and implement recommendations.
Atlantic salmon (Salmo salar)	1	3.2.1B	Monitor potential adverse interactions of existing stocking programs for freshwater salmonids in Atlantic salmon river drainages and fully assess the impacts of these programs on the DPS	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife, University of Maine	Management: Predator and Competitor Control, Research: Competition	Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	Action should be conducted in conjunction with 3.2.1D. Costs are those of a thorough literature review and not a full assessment that would require field studies. A full assessment, with research contract, would cost $100,000 or more. After work is complete, annual stocking coordination meetins with ASC, IFW, FWS, and NMFS would be needed.
Atlantic salmon (Salmo salar)	2	3.2.1C	Suspend stocking of brown trout immediately in all DPS rivers until the potential impacts of these introductions can be fully assessed.	Not Started			Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Action should be implemented immediately
Atlantic salmon (Salmo salar)	2	3.2.1D	Monitor potential adverse interactions of existing stocking programs for freshwater salmonids (i.e., splake, landlocked salmon, brook trout) in headwater lakes of DPS rivers to determine the potential impacts of these programs on the DPS	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Action should be conducted in conjunction with 3.2.1B

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Atlantic salmon (Salmo salar)	1	3.2.1E	Develop a Section 10(a)(1)(B) habitat conservation plan for existing stocking programs, if warranted, and implement	Not Started			U.S. Fish and Wildlife Service, Local Governments, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	2 years development; implementation cost TBD
Atlantic salmon (Salmo salar)	1	3.2.2	Monitor populations of introduced non-salmonid species and implement management controls when appropriate and feasible.	Not Started			U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife	Work type not yet selected	Labor type not yet selected	outyear costs TBD
Atlantic salmon (Salmo salar)	2	4.1A	Evaluate new aquaculture lease and permit applications to ensure that net pens and equipment are adequate for site location and potential storm impact	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Atlantic Salmon Commission, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	coordination/consultation at estimated cost 30k/year for duration of recovery
Atlantic salmon (Salmo salar)	1	4.1B	Develop fully functional containment management systems for the containment of farmed salmon at marine sites	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Industry, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	Action initiated, 500k NFWF Grant used to develop CMS
Atlantic salmon (Salmo salar)	1	4.1C	Develop and implement integrated loss control plans for all salmon aquaculture facilities	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Industry, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	Action initiated, Plans developed for all existing sites, Implementation cost estimates not available

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Atlantic salmon (Salmo salar)	2	4.1D	Develop and maintain an inventory tracking system for all marine aquaculture facilities	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Industry, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	Action on-going, Costs estimates unavailable
Atlantic salmon (Salmo salar)	2	4.1E	Assess, document and monitor damage caused by seal predation that may lead to the escapement of farmed salmon into the environment	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), Industry, Maine Department of Marine Resources, University of Maine	Other	Graduate Student, Internal Field Assistance, Internal Technical Assistance	Creation of a log book system of tracking seal predation events and resultant damage (mortalities, escapements, gear damage, etc.). The DMR/DEP reporting form has a column for predation losses, which could be expanded. Conduct controlled studies on effectiveness of husbandry practices, predator net use, and net weighting and tensioning on seals. Include what is going on in Canada aquaculture industry.
Atlantic salmon (Salmo salar)	2	4.2.1	Develop and implement contingency measures in case of accidental release of farmed fish	Ongoing Not Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Industry, Atlantic Salmon Commission, Maine Department of Environmental Protection, Maine Department of Marine Resources	Other: Regulations	Internal Field Assistance, Internal Technical Assistance	Outyear costs TBD

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Atlantic salmon (Salmo salar)	2	4.2.2A	Maintain existing weirs on DPS rivers to minimize aquaculture escapees spawning, enable data collection and collect brood stock	Ongoing Current	FY 1995 - FY 1999		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Industry, Atlantic Salmon Commission	Management: Predator and Competitor Control	Internal Field Assistance	operation/maintenance costs 66k/weir/year. explore as necessary upgrades of efficiency for weirs
Atlantic salmon (Salmo salar)	2	4.2.2B	Construct weirs on DPS rivers, including the East Machias and Machais rivers, where necessary to exclude aquaculture escapees, enable data collection and collect brood stock	Ongoing Not Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Industry, Atlantic Salmon Commission	Management: Predator and Competitor Control	Internal Field Assistance, Internal Technical Assistance	565K for site/construction Machais weir; 266K for site/construction E. Machais weir
Atlantic salmon (Salmo salar)	2	4.2.3	Mark all farmed salmon prior to placement into marine net-pens	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Industry, Maine Department of Environmental Protection	Other: Regulations	Internal Field Assistance, Internal Technical Assistance	Outyear costs TBD. If current direction by industry to use genetic marking continues, USFWS will incur yearly staff costs associated with genetic analyses.
Atlantic salmon (Salmo salar)	2	4.2.4	Discontinue the culture of non-North American salmon	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Industry	Work type not yet selected	Labor type not yet selected	Action should be implemented immediately
Atlantic salmon (Salmo salar)	2	4.2.5	Prohibit the placement into marine net pens of reproductively viable transgenic salmon	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Industry, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	effective immediately

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Atlantic salmon (Salmo salar)	3	4.2.6	Continue research into developing strains of aquaculture fish that cannot interbreed with wild Atlantic salmon	Not Started			U.S. Department of Agriculture, Industry, University of Maine	Research: General	Graduate Student, Internal Technical Assistance	Investigate the potential for developing lines of commercially reared triploid salmon that have performance characteristics similar to diploid aquaculture salmon.
Atlantic salmon (Salmo salar)	1	4.3.1A	Develop and implement a comprehensive disease management plan that includes siting and standard operational procedures to minimize outbreaks of ISA	Ongoing Current	FY 2000 - FY 2004	FY 2006	U.S. Department of Agriculture, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Industry, Maine Department of Marine Resources, North Atlantic Salmon Conservation Organization	Management: Disease Control	Internal Technical Assistance	implementation costs TBD FY05 600,000 (Steve Ellis USDA)
Atlantic salmon (Salmo salar)	2	4.3.1B	Develop and implement comprehensive integrated bay management plans that include coordination of stocking densities, harvesting and fallowing and disease treatment and management	Ongoing Current	FY 2000 - FY 2004	FY 2006	U.S. Department of Agriculture, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Nongovernmental Organizations , Industry, Atlantic Salmon Commission, Maine Department of Marine Resources	Management: Disease Control, Management: Planning, Other: Regulations	Internal Technical Assistance	costs for development; implementation costs TBD; need to coordinate with Canada to insure success of program due to shared bays with aquaculture facilities
Atlantic salmon (Salmo salar)	2	4.3.1C	Revise federal import regulations (Title 50) to include the ISA virus	Ongoing Current	FY 2005		U.S. Fish and Wildlife Service	Other: Regulations	Internal Technical Assistance	John Coll - USFWS point of contact

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Atlantic salmon (Salmo salar)	2	4.3.1D	Maintain and update existing fish health guidelines and protocols as necessary, to control the introduction of new pathogens and continue to provide protection from disease	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Department of Marine Resources	Management: Disease Control	Internal Technical Assistance	DMR pathologist position currently vacant; needs more permanent source of funding; $100,000 cost - not sure what for?
Atlantic salmon (Salmo salar)	2	4.3.1E	Expand the FWS Wild Fish Health Survey to include DPS river	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife	Management: Disease Control	Internal Field Assistance, Internal Technical Assistance	DPS river fish can be sent to USFWS or MDIFW for diagnostic testing. Primary need is for field staff to collect samples.
Atlantic salmon (Salmo salar)	2	4.3.1F	Implement biosecurity and disinfection protocol for all research and assessment activities being conducted in rivers within the DPS	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Geological Survey, U.S. Environmental Protection Agency, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife, Maine Department of Marine Resources	Management: Disease Control	Internal Field Assistance, Internal Technical Assistance	Most fisheries agencies currently have disinfection and biosecurity protocols. Unsure for USGS and MEDMR.
Atlantic salmon (Salmo salar)	1	4.3.2A	Determine the modes of transmission of the ISA virus	Ongoing Current	FY 2000 - FY 2004		U.S. Department of Agriculture, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Industry, Maine Department of Marine Resources	Research: Disease	Contract, Internal Field Assistance, Internal Technical Assistance	Hydrographic reserach conducted by USDA; shellfish transmission research by Microtech and others; sea lice research by USDA and New Brunswick researchers; USDA funding ends in September 2006 - will have to be assumed by MEDMR

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Atlantic salmon (Salmo salar)	1	4.3.2B	Continue to investigate the role of wild fish species as potential reservoirs and vectors of ISA	Ongoing Current	FY 2000 - FY 2004		U.S. Department of Agriculture, U.S. National Marine Fisheries Service (NOAA Fisheries), Industry, Maine Department of Marine Resources	Research: Disease	Internal Field Assistance, Internal Technical Assistance	Over 5,000 fish samples collected between 2000 and 2005 to test for ISAV. Project ongoing and will focus on lamprey, smelt, and searun salmonids.
Atlantic salmon (Salmo salar)	2	4.3.2C	Initiate screening and long-term monitoring of resident and migratory fish in aquaculture production bays for endemic and exotic salmonid pathogens	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), Industry, Maine Department of Marine Resources	Research: Disease	Internal Field Assistance, Internal Technical Assistance	Various fish species have been collected and sampled in Cobscook Bay, Dennys River. Ongoing NMFS wild fish survey will continue to collect samples.
Atlantic salmon (Salmo salar)	2	4.3.2D	Continue active research programs on immunization of farmed fish	Partially Complete	FY 2000 - FY 2004		U.S. Department of Agriculture, U.S. Fish and Wildlife Service, Industry, Maine Department of Marine Resources	Research: Disease	Internal Technical Assistance	In 2003 three S-K grants were awarded to develop ISA vaccine. All grants have expired. Microtechnologies, Inc. and Advanced Bionutrition intend to continue progress to date towards a vaccine.
Atlantic salmon (Salmo salar)	3	4.3.2E	Develop an effective diagnostic technique for the SSS virus and determine the distribution of SSS virus within the geographic range of the DPS	Ongoing Current	FY 1995 - FY 1999		Cornell University, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Research: Disease	Internal Technical Assistance	Diagnostic technique developed by Cornell University; other diagnostic technique in publication. Screening of wild fish in DPS has occurred.
Atlantic salmon (Salmo salar)	2	4.3.3A	Investigate the potential of sea lice to adversely affect the DPS and the role of salmon aquaculture sites as a reservoir for this parasite	Not Started			U.S. Department of Agriculture, U.S. National Marine Fisheries Service (NOAA Fisheries), Industry, Maine Department of Marine Resources	Research: Disease	Internal Field Assistance, Internal Technical Assistance	costs TBD
Atlantic salmon (Salmo salar)	2	4.3.3B	Regularly test and report sea lice burdens at individual net-pen facilities	Not Started			Industry, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	costs TBD

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Atlantic salmon (Salmo salar)	2	4.3.3C	Continue treatment for sea lice at aquaculture facilities	Ongoing Current	FY 1995 - FY 1999		U.S. Department of Agriculture, Industry, Maine Department of Marine Resources, University of Maine	Management: Disease Control	Internal Field Assistance, Internal Technical Assistance	Action ongoing
Atlantic salmon (Salmo salar)	2	4.4.1A	Develop and operate fully functional containment management systems for the containment of farmed salmon at freshwater hatchery sites	Not Started			Industry, Maine Department of Environmental Protection, Maine Department of Inland Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Action ongoing
Atlantic salmon (Salmo salar)	1	4.4.1B	Develop integrated loss control plans for all salmon aquaculture hatchery facilities. Conduct independent audits of freshwater hatcheries once loss control plans are in place	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Industry, Maine Department of Environmental Protection, Maine Department of Marine Resources	Work type not yet selected	Labor type not yet selected	1 year development; on-going implementation
Atlantic salmon (Salmo salar)	2	4.4.1C	Develop and maintain an inventory tracking system that facilities the accurate tracking of total numbers of salmon smolts being produced by the hatchery	Complete	FY 2000 - FY 2004	FY 2006	U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Industry, Maine Department of Environmental Protection, Maine Department of Marine Resources	Other: Regulations	Internal Technical Assistance	1 year development; on-going implementation; next step is to investigate new technologies with better accuracy, speed, and reliability
Atlantic salmon (Salmo salar)	2	4.4.2	Develop contingency plans to reduce adverse impacts if containment measures fail	Partially Complete	FY 2000 - FY 2004		Industry, Maine Department of Environmental Protection	Other: Regulations	Internal Field Assistance, Internal Technical Assistance	Plans should be periodically reviewed and revised as appropriate

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Atlantic salmon (Salmo salar)	1	5.1.1A	Continue operation of federal fish rearing facilities needed for recovery of the DPS, including maintenance of river-specific brood stock	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Management: Propagation, Research: Propagation	Internal Technical Assistance, Species Expert	ongoing
Atlantic salmon (Salmo salar)	1	5.1.1B	Continue stocking cultured fish to supplement wild salmon populations	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Technical Advisory Committee	Management: Propagation, Research: Propagation	Internal Field Assistance, Internal Technical Assistance, Species Expert	ongoing
Atlantic salmon (Salmo salar)	1	5.1.2	Monitor and evaluate the current stocking program	Ongoing Current	Prior to FY 1995		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Technical Advisory Committee	Management: Propagation, Research: Propagation	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	Stocking program should be periodically reviewed through out recovery. Outyear costs TBD. Need to develop a RFP for Hathery Review, award contract, review results, and implement recommendations. Closely tied to 3.2.1A.
Atlantic salmon (Salmo salar)	1	5.1.3A	Evaluate the role of alternate stocking strategies to supplement wild salmon populations	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Industry, Atlantic Salmon Commission, Technical Advisory Committee	Research: Propagation	Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert	outyear costs TBD. Ongoing. May be additional recommendations from the hatchery program review 3.2.1A. Information is reported to TAC and documented in the USASAC annual report. Annual review of return rates for salmon overall and for marked groups. Stage-specific evaluation at some life stages as well.
Atlantic salmon (Salmo salar)	2	5.1.3B	Continue to assess and evaluate the results of the adult stocking program	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), Atlantic Salmon Commission, Technical Advisory Committee	Work type not yet selected	Labor type not yet selected	

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Atlantic salmon (Salmo salar)	2	5.1.3C	Evaluate the role of streamside incubation facilities to supplement wild salmon populations	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Technical Advisory Committee	Research: Demographic Studies, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Species Expert	outyear costs TBD
Atlantic salmon (Salmo salar)	1	5.1.4A	Evaluate the need to re-establish populations of Atlantic salmon in extirpated rivers within the DPS	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Technical Advisory Committee	Management: Reintroduction, Research: Habitat Status, Research: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	See action 5.1.4B. The need still exists to assess this action. Current evaluations consider Cove Brook and the Union River, but a comprehensive evaluation has not been taken.
Atlantic salmon (Salmo salar)	1	5.1.4B	Establish experimental populations to assist in the recovery of the GOM DPS of Atlantic salmon	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Technical Advisory Committee	Work type not yet selected	Labor type not yet selected	
Atlantic salmon (Salmo salar)	1	5.2.1	Continue fish culture management practices at federal hatcheries to minimize the potential for disease	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service	Management: Disease Control, Management: Propagation, Research: Disease, Research: Management Techniques, Research: Propagation	Internal Technical Assistance	See action 5.1.1A for costs
Atlantic salmon (Salmo salar)	1	5.2.2	Continue fish health surveillance efforts and implementation of fish health practices at federal hatcheries	Not Started	Prior to FY 1995		U.S. Fish and Wildlife Service	Management: Disease Control, Management: Propagation, Research: Disease, Research: Propagation	Internal Technical Assistance	
Atlantic salmon (Salmo salar)	1	5.2.3A	Conduct research on ISA and SSS detection and prevention	Ongoing Current	FY 1995 - FY 1999		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Geological Survey, Atlantic Salmon Commission	Research: Disease	Internal Technical Assistance	Need for additional research to be assessed for outyears

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Atlantic salmon (Salmo salar)	2	5.2.3B	Conduct research on other pathogens to identify potential threats to the DPS	Planned	FY 2006		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife, Maine Department of Marine Resources	Research: Disease	Internal Technical Assistance	See recovery action 5.2.3C DMR and IFW have secured a NMFS grant to look at diseases and habitat concerns for rainbow smelt and sturgeon; grant originally contained funding for salmon, but it was cut.
Atlantic salmon (Salmo salar)	2	5.2.3C	Initiate screening and long-term monitoring of resident fish species in DPS rivers for endemic and exotic salmonid pathogens	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Research: Disease	Internal Field Assistance, Internal Technical Assistance	See recovery action 5.2.3B Between 2001 and 2005, over 1400 anadromous fish were assayed for salmonid viral pathogens. Screening of resident fish in Downeast rivers has not begun.
Atlantic salmon (Salmo salar)	2	5.3A	Develop and implement procedures at federal hatcheries to identify potential escape sources and implement the appropriate modifications	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	one year development; ongoing implementation, outyear costs TBD
Atlantic salmon (Salmo salar)	2	5.3B	Implement discharge and effluent management protocols for all federal hatcheries with the goal of controlling and minimizing release of juveniles	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, Maine Department of Environmental Protection	Management: Propagation	Internal Technical Assistance	Y3 costs TBD, action should be implemented with 5.3A. Regulatory issue, not technical. Probably not appropriate for TAC.
Atlantic salmon (Salmo salar)	1	6.1.1	Update brood stock management plans, including brood fish collection, genetic management and program evaluation	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Technical Advisory Committee	Research: Genetics	Internal Technical Assistance	Periodic review and revision as appropriate. No costs available at this time.
Atlantic salmon (Salmo salar)	1	6.1.2	Continue to genetically characterize and screen all brood fish and to track parentage of all fish produced	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Work type not yet selected	Internal Technical Assistance	

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Atlantic salmon (Salmo salar)	1	6.2	Ensure that management plans consider and avoid negative genetic effects of management actions	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	Costs TBD
Atlantic salmon (Salmo salar)	2	6.3	Explore methods for long-term preservation of gametes and genes for future use (e.g., cryopreservation)	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Geological Survey, Atlantic Salmon Commission, Technical Advisory Committee, University of Maine	Management: Propagation, Research: Propagation	Contract	Has been done out West for sperm; low success for eggs. TAC is not well versed in latest advances; Hatcheries/Broodstock Planning Work Group should continually monitor for advances and should attempt to implement if the technology is reliable.
Atlantic salmon (Salmo salar)	1	6.4	Monitor genetic diversity, including parentage of smolts and returning adults	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Management: Other, Management: Propagation, Management: Reintroduction, Research: Genetics, Research: Propagation	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	
Atlantic salmon (Salmo salar)	1	7.1.1A	Monitor adult returns at existing fishways and weirs	Ongoing Current	Prior to FY 1995		Atlantic Salmon Commission	Management: General, Research: Population Surveys	Internal Technical Assistance, Species Expert	TAC reviews summary data and annual reporting occurs in USASAC annual report. This action includes the annual review of return rates for Atlantic salmon and marked groups of fish.

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Atlantic salmon (Salmo salar)	1	7.1.1B	Construct weirs on the East Machias and Machais rivers to monitor adult returns	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Management: General, Management: Predator and Competitor Control, Research: Competition, Research: Demographic Studies, Research: Migration	Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	See action 4.4.2B for costs and estimated time. For the time being, this recovery action has been cancelled. There are no current plans to construct weirs at the Machias or East Machias rivers. There is not enough money or staff, and it would be difficult to get local planning board permission.
Atlantic salmon (Salmo salar)	1	7.1.1C	Conduct intensive redd counts on all DPS rivers to index spawning escapement	Ongoing Current	Prior to FY 1995		Atlantic Salmon Commission	Management: Other, Research: Demographic Studies, Research: Population Surveys	Internal Field Assistance, Species Expert	outyear costs TBD. The redd count occurs annually. Some years high water prevents accurate redd counts.
Atlantic salmon (Salmo salar)	2	7.1.1D	Continue development of DPS-level estimates of spawning escapement	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), Atlantic Salmon Commission, Technical Advisory Committee	Management: Other, Research: Population Surveys	Internal Field Assistance, Internal Technical Assistance	Annual action, estimates of spawning escapement needed to monitor recovery, NMFS and ASC have developed a redds-returns regression to estimate DPS returen
Atlantic salmon (Salmo salar)	2	7.1.1E	Develop accurate extrapolation methods to estimate abundance in areas where traditional redd counts are not feasible or practical	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), Atlantic Salmon Commission, Technical Advisory Committee	Research: Population Surveys	Internal Technical Assistance	Apparently not done; work by Ashley Steele at NMFS-NWFSC to develop a model to predict # of spawners based on physical habitat attributes coudl be a starting point. Method should be periodically reviewed and revised as appropriate

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Atlantic salmon (Salmo salar)	1	7.1.2A	Continue basinwide assessment of large parr abundance and measurement of biological characteristics in the Narraguagus and Dennys river systems	Ongoing Current	Prior to FY 1995		U.S. National Marine Fisheries Service (NOAA Fisheries), Atlantic Salmon Commission	Research: Demographic Studies, Research: Population Surveys	Internal Technical Assistance	outyear costs TBD. TAC reviews summary data and annual reporting occurs in the USASAC annual report. Annual review of juvenile production of large parr is done at index sites and more intensively in select rivers. The goal is to index juvenile productivity across the DPS.
Atlantic salmon (Salmo salar)	2	7.1.2B	Expand assessments of large parr abundance to a third DPS river	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), Atlantic Salmon Commission, Technical Advisory Committee	Research: Population Surveys	Internal Field Assistance, Internal Technical Assistance	Done for Narraguagus, Sheepscot, and Dennys for 2 years; dropped Dennys. Redundant with 7.1.2A remove/consolidate
Atlantic salmon (Salmo salar)	2	7.1.2C	Establish 6-10 index sites to assess large parr abundance and biological characteristics in the remaining DPS rivers	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), Atlantic Salmon Commission, Technical Advisory Committee	Research: Population Surveys	Internal Field Assistance, Internal Technical Assistance	Index sites are established with annual monitoring, assessing how we implement our electrofishing effort to better understand populations, outyear costs TBD, redundant with 7.1.2A - remove/consolidate
Atlantic salmon (Salmo salar)	1	7.1.3	Conduct quantitative assessment of Atlantic salmon smolt production	Obsolete	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), Atlantic Salmon Commission	Management: Other, Research: Population Surveys	Internal Technical Assistance	Annual assessment and monitoring

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Atlantic salmon (Salmo salar)	1	7.1.4A	Continue telemetry studies of smolt migration from the Dennys and Narraguagus rivers	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), Atlantic Salmon Commission	Research: Migration, Research: Other Information, Research: Predation	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	outyear costs TBD. The Atlantic Salmon Recovery Team TAC work group believes that because of funding cuts and lack of fish to study in the Dennys and Narraguagas, that this recovery action has changed. The work group suggests deleting this recovery action. The TAC reviews summary data and annual reporting occurs in the USASAC annual report. Studies of smolt emigration ecology in the lower river systems and esturaries to the Gulf of Maine.
Atlantic salmon (Salmo salar)	2	7.1.4B	Expand spatial coverage of detection arrays to better assess movements of post-smolts in the Gulf of Maine and the Bay of Fundy	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), Atlantic Salmon Commission	Research: Population Surveys	Internal Field Assistance, Internal Technical Assistance	redundant with 7.1.2A - remove/consolidate
Atlantic salmon (Salmo salar)	1	7.1.4C	Continue post-smolt surface trawling assessment programs and expand the temporal and spatial extent of the coverage	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries)	Research: Demographic Studies, Research: Migration, Research: Other Information, Research: Population Surveys, Research: Predation	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	This project is in the data analysis phase until 2008, when the recovery action will be reevaluated. NOAA will provide reports for TAC review as data moves forward to publication in 2007-08.

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Atlantic salmon (Salmo salar)	1	7.1.5	Continue to participate and contribute to international cooperative research and assessment efforts to improve our understanding of salmon at sea	Ongoing Current			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Research: Competition, Research: Demographic Studies, Research: Environmental Contaminants, Research: Habitat Requirements, Research: Habitat Status, Research: Migration, Research: Other Information, Research: Population Surveys	Contract, Internal Administrative, Species Expert	outyear costs TBD ES etc. TAC reviews ummary data and annual reporting occurs in USASAC annual report.
Atlantic salmon (Salmo salar)	2	7.1.6	Develop and apply population viability analysis model	Complete	FY 2000 - FY 2004	FY 2006	U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Research: Population Surveys	Internal Technical Assistance	model developed by NEFSC
Atlantic salmon (Salmo salar)	2	8.1A	Develop and implement a comprehensive Education and Outreach Plan for the Gulf of Maine DPS of Atlantic salmon	Planned			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Other: Information and Education	Internal Technical Assistance	2 years development; implementation costs TBD; detailed description of outreach plan being developed
Atlantic salmon (Salmo salar)	2	8.1B	Continue efforts to educate anglers on the difference between trout and juvenile salmon	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Nongovernmental Organizations , Atlantic Salmon Commission, Maine Department of Inland Fish and Wildlife, Maine Department of Marine Resources	Other: Information and Education	Internal Field Assistance, Internal Technical Assistance	Action ongoing with information in fishing regulations and posters/stickers used in many locations, long-term efforts required

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Atlantic salmon (Salmo salar)	3	8.1C	Develop updated educational programs for schools	Ongoing Current	FY 1995 - FY 1999		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Nongovernmental Organizations , Atlantic Salmon Commission	Other: Information and Education	Internal Technical Assistance	Materials/programs should be periodically reviewed and updated as appropriate throughout the recovery period. Need to update programs to align with Maine Learning Results. More than $10,000 needed to develop materials (videos) and line to Learning Results
Atlantic salmon (Salmo salar)	3	8.1D	Evaluate the role of public display of salmon as an outreach tool	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Other: Information and Education	Internal Technical Assistance	Display is ongoing and a valuable tool; more is needed. Opportunities and most effective method should be evaluated. Costs TBD
Atlantic salmon (Salmo salar)	1	8.2	Maintain, and if necessary increase, coordination/communication between government and local agencies on issues pertaining to Atlantic salmon	Ongoing Current	FY 2000 - FY 2004		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Local Governments, Nongovernmental Organizations , Atlantic Salmon Commission	Management: Land Use, Management: Planning, Other: Information and Education, Other: Regulations	Internal Technical Assistance	ongoing but needs improvement; include interagency coordination notes in ASC newsletter; ASC Salmon Summit;costs TBD
Atlantic salmon (Salmo salar)	3	9.1	Appoint a Recovery Implementation Team to coordinate implementation of recovery plan objectives	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	Implementation team can be appointed before recovery plan is finalized
Atlantic salmon (Salmo salar)	3	9.2A	Conduct an annual review of the implementation schedule	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission, Technical Advisory Committee	Work type not yet selected	Labor type not yet selected	Long-term review and monitoring of recovery plan implementation

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Atlantic salmon (Salmo salar)	3	9.2B	Complete a biennial progress report on completion of recovery actions	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	Long-term actions
Atlantic salmon (Salmo salar)	3	9.3	Complete necessary addenda, updates and revisions to the Recovery Plan	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	Costs TBD, recovery plan should be revised and updated as necessary throughout the recovery process
Atlantic salmon (Salmo salar)	2	9.4	Continue to evaluate Atlantic salmon populations in other rivers within the range of the DPS and the appropriateness of their protection under the ESA	Not Started			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Atlantic Salmon Commission	Work type not yet selected	Labor type not yet selected	outyear costs TBD ES etc.